



RECEIVED

SEP 16 2002

TECH CENTER 1600/2900

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO		Complete if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/991,518		
		Filing Date	11/16/2001		
		First Named Inventor	FENICAL, WILLIAM ET AL		
		Art Unit	1645		
		Examiner Name	unknown		
Sheet	1	of	3	Attorney Docket Number	6627PA1022

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. 1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code* (if known)			
		US-		NONE	
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. 1	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code* (if known)				
				NONE		

Examiner Signature	<i>Gene Marx</i>	Date Considered	9/11/03
-----------------------	------------------	--------------------	---------

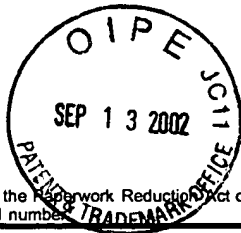
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

RECEIVED

SEP 16 2002



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Approved for use through 10/31/2006 OMB 0651-0038

SEP 16 2002 1600/2900

Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/991.518
		Filing Date	11/16/2001
		First Named Inventor	FENICAL, WILLIAM ET AL
		Group Art Unit	
		Examiner Name	
Sheet 3 of 3	Attorney Docket Number	6627PA1022	

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	L	Okami, Y. et al. 1988. Search and discovery of new antibiotics, pp. 33-67. Actinomyces in Biotechnology.	
	M	Page, R. D. M. 1996. TREEVIEW: An application to display phylogenetic trees on personal computers. Computer Applications in the Biosciences 12, 357-358.	
	N	Stackebrandt, E. et al. 1997. Proposal for a new hierarchic classification system, Actinobacteria classis nov. International Journal of Systematic Bacteriology. 47:479-491.	
	O	Tang, L. et al. 2000. Cloning and heterologous expression of the epothilone gene cluster. Science. 287:640-2.	
	P	Thompson, J.D. et al. 1994. CLUSTAL W: Improving the sensitivity of progressive multiple sequence alignment through sequence weighting, Nucleic Acids Research 22:4673-4680.	
	Q	Versalovic, J. et al. 1991. Distribution of repetitive DNA sequences in eubacteria and application to fingerprinting of bacterial genomes. Nucleic Acids Res. 19:6823-6831.	
	R	Weyland, H. 1981. Distribution of actinomycetes on the sea floor. Actinomycetes, Zbl. Bakt. Suppl. 11:185-193.	

Examiner Signature	<i>Lene Marx</i>	Date Considered	9/11/03
--------------------	------------------	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



RECEIVED

SEP 16 2002

TECH CENTER 1600/2900

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) Sheet <u>2</u> of <u>3</u>	Compleat if Known	
	Application Number	09/991.518
	Filing Date	11/16/2001
	First Named Inventor	FENICAL, WILLIAM ET AL
	Group Art Unit	1645
	Examiner Name	unknown
Attorney Docket Number		6627PA1022

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
m	A	Bull, A. T. et al. 2000. Search and discovery strategies for biotechnology: The paradigm shift. Microbiology and Molecular Biology Reviews. 64:573-606.	
	B	Goodfellow, M. et al. 1984. Actinomycetes in marine sediments, p. 453-472. Biological, biochemical, and biomedical aspects of actinomycetes. Academic Press, Inc. Orlando.	
	C	Goodfellow, M. et al. 1983. Ecology of actinomycetes. Ann. Rev. Microbiol. 37:189-216.	
	D	Helmke, E. et al. 1984. Rhodococcus marinonascens sp. nov., an actinomycete from the sea. Int. J. Syst. Bacteriol. 34:127-38.	
	E	Hopwood, D.A. 1995. Genetic manipulation of streptomyces polyketide synthase genes for novel secondary metabolite production. FEMS Microbiol. Rev. 16:233-4.	
	F	Jensen, P.R., et al. 1991. Distribution of actinomycetes in near-shore tropical marine sediments. Appl. Environ. Microbiol 57:1102-8.	
	G	Koch, C., et al. 1996. 16S ribosomal DNA analysis of the genera Micromonospora, Actinoplanes, ... Int. Journal of Systematic Bacteriology. 46:765-768.	
	H	Moran, M.A. et al. 1995. Evidence for indigenous streptomyces populations in a marine environment ..., pp. 3695-3700. Applied and Environmental Microbiology. Vol. 61, No. 10.	
	I	Nesternenko, O.A., et al. 1982. Rhodococcus luteus nom. nov. and Rhodococcus maris nom. nov. pp. 1-14. Int'l Journal of Systematic Bacteriology. Vol. 32, No. 1.	
	J	Nolan, R.D. et al. 1988. Isolation and screening of actinomycetes, pp. 1-32. Actinomycetes in Biotechnology.	
✓	K	O'Donnell, A.G. 1988. Recognition of novel actinomycetes, pp. 69-88. Actinomycetes in Biotechnology.	

Examiner Signature	<u>Lune Wane</u>	Date Considered	<u>9/11/03</u>
--------------------	------------------	-----------------	----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.